

# Safety Data Sheet

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Version 1

## 1. IDENTIFICATION

**Product Identifier**

Product Name F-410 Nonphosphate Chloral Bleach

**Other means of identification**

Product Code F-410

**Recommended use of the chemical and restrictions on use**

Recommended Use Bleaching agent for industrial use on white fabric.

**Details of the supplier of the safety data sheet**

Missouri Vocational Enterprises  
 2727 Highway K  
 Bonne Terre, MO 63628  
 Phone: (573) 358-5516

**Emergency Telephone Number**

INFOTRAC 1-800-535-5053 (North America)  
 1-352-323-3500 (International)

## 2. HAZARDOUS IDENTIFICATION

Signal Word **DANGER**

| Classification  | Hazard Category |
|---|-----------------|
| Skin - Corrosion/Irritation                           | 1B              |
| Eye - Damage /Irritation                              | 1               |
| Acute Toxicity - Inhalation                           | 2               |
| Acute Toxicity - Oral                                 | 4               |
| Specific Target Organ Toxicity - Single Exposure      | 3               |
| Hazardous To The Aquatic Environment - Acute Hazard   | 1               |
| Hazardous To The Aquatic Environment - Chronic Hazard | 1               |

**Health Hazard Statement(s)**

H290 – May be corrosive to metals.  
 H302 – Harmful if swallowed.  
 H314 – Causes severe skin burns and eye damage.  
 H318 – Causes serious eye damage.  
 H330 – Fatal if inhaled.  
 H335 – May cause respiratory irritation.  
 H410 – Very toxic to aquatic life with long-lasting effects.

**Hazard Pictogram(s)**



**Hazard Ratings**

|              | HMIS | NFPA |
|--------------|------|------|
| Health       | 3    | 3    |
| Flammability | 0    | 0    |
| Reactivity   | 1    | 1    |
| PPE          | F    | N/A  |

**Precautionary Statement(s)**

P234 – Keep only in original container.  
 P260 – Do not breathe dust or mists.  
 P262 – Do not get in eyes, on skin, or on clothing.  
 P264 – Wash face, hands and any exposed skin thoroughly after handling.

P270 – Do not eat, drink, or smoke when using this product.

P271 – Use only outdoors or in a well-ventilated area.

P280 – Wear protective gloves/protective clothing/ eye protection/face protection.

P301+P330+P331 – IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

P303+P361+P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTER or doctor/physician.

P391 – Collect spillage.

P403+P233 – Store in a well-ventilated place. Keep container tightly closed.

P405 – Store locked up.

P406 – Store in a corrosive resistant container with a resistant inner liner.

P501 – Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

### Potential Health Effects

**Skin Contact** May cause skin corrosion/irritation/burns.

**Eye Contact** May cause eye damage.

**Inhalation** May cause respiratory irritation.

**Ingestion** May be harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENT

| Chemical Name/Pure Substance          | CAS #      | Weight-% |
|---------------------------------------|------------|----------|
| Sodium Carbonate                      | 497-19-8   | 30-35    |
| Sodium Sulfate                        | 7757-82-6  | 30-35    |
| Sodium Dichloroisocyanurate Dihydrate | 51580-86-0 | 30-35    |
| Sodium Metasilicate                   | 6834-92-0  | 2-6      |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. FIRST-AID MEASURES

**General Advice** If you feel unwell, seek medical advice (show label where possible).

**Eye Contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

**Skin Contact** Brush off excess chemical and immediately flush contaminated areas with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. GET MEDICAL ATTENTION IMMEDIATELY. Treat symptomatically.

**Ingestion** Rinse mouth. Do NOT induce vomiting. Give large amounts of water. GET MEDICAL ATTENTION IMMEDIATELY.

### Most important symptoms and effects

**Symptoms** Respiratory: irritation, redness of upper and lower airways, coughing, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. Skin: redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns. Eye: irritation and burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Ingestion: irritation, nausea, and vomiting. May cause local tissue damage to esophagus and stomach such as burning, inflammation, local ulceration, and may cause gastrointestinal bleeding.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

Suitable Extinguishing Media: Flood with copious amounts of water.

Unsuitable Extinguishing Media: ABC fire extinguishers, dry chemical, carbon dioxide, or halogenated extinguishing agents.

### Specific Hazards Arising from the Chemical

Components of this product may decompose upon heating to produce corrosive and/or toxic fumes.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Damp containers should be opened and examined. Do not attempt to reseal contaminated drums. Damp material should be neutralized to a non-oxidizing state.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                                  |  |
|----------------------------------|--|
| <b>Personal precautions</b>      | Keep unnecessary personnel away. Do not get in eyes, on skin, or on clothing. Avoid creation of dust. Avoid breathing dust. Do not eat, drink, or smoke in areas where this material is used. Wash thoroughly after handling. Wet material may pose a slipping hazard. |
| <b>Environmental precautions</b> | Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.  |

### Methods and material for containment and clean up

|                                |   |
|--------------------------------|---|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so.   |
| <b>Methods for Clean up</b>    | Shovel dry material into suitable container. Vacuum any remaining material into a suitable container. Damp material should be neutralized to a non-oxidizing state. |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Do not get in eyes, on skin, or on clothing. Use only in well ventilated areas. Do not breathe dust. Wash face, hands, and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8.

### Conditions for safe storage, including any incompatibilities

|                               |  |
|-------------------------------|--|
| <b>Storage Conditions</b>     | Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container in an area where temperatures do not exceed 52 °C (125 °F). Do not allow water to get into container. If liner is present, tie after each use. Store containers on pallets. Keep away from food, drink, and animal feed. Store locked up. |
| <b>Incompatible Materials</b> | Can generate heat when mixed with acids. When wet, flammable hydrogen gas may be produced from prolonged contact with alkali sensitive metals such as: aluminum, brass, bronze, copper, lead, tin, zinc. Ammonia, bases, floor sweeping compounds, calcium hypochlorite, reducing agents, organic solvents, and compounds.                     |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Appropriate engineering controls

|                      |   |
|----------------------|---|
| Engineering Controls | Use only in well-ventilated areas. Provide local exhaust ventilation where dust or mist may be generated. |
|----------------------|---|

Individual protection measures, such as personal protective equipment

|                                |  |
|--------------------------------|--|
| Eye/Face Protection            | Wear approved safety goggles. Provide an emergency eye wash station.   |
| Skin and Body Protection       | When the potential for contact with wet material exists, wear Tychem or similar protective suit. When the potential for contact with dry material exists, wear disposable coveralls suitable for dust exposure, such as Tyvek or similar protective coveralls. Wear appropriate chemical resistant gloves. |
| Respiratory Protection         | Ensure adequate ventilation, especially in confined areas. A NIOSH approved respirator with N95 cartridges may be permissible under certain circumstances when symptoms have been observed that are indicative of overexposure.  |
| General Hygiene Considerations | Do not eat, drink, or smoke when using this product. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling material.  |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

|                |       |                |                |
|----------------|-------|----------------|----------------|
| Physical State | Solid | Odor           | Bleach         |
| Color          | White | Odor Threshold | Not Determined |

| Property                     | Values         | Remarks - Method |
|------------------------------|----------------|------------------|
| pH                           | 10-10.5        | 1% Solution      |
| Melting Point/Freezing Point | Not determined |                  |
| Boiling Point/Boiling Range  | Not determined |                  |
| Flash Point                  | Not determined |                  |
| Evaporation Rate             | Not determined |                  |
| Flammability (Solid, Gas)    | Not determined |                  |
| Upper Flammability Limits    | Not determined |                  |
| Lower Flammability Limits    | Not determined |                  |
| Vapor Pressure               | Not determined |                  |
| Vapor Density                | Not determined |                  |
| Specific Gravity             | Not determined |                  |
| Water Solubility             | Complete       |                  |
| Solubility in other solvents | Not determined |                  |
| Partition Coefficient        | Not determined |                  |
| Auto-ignition Temperature    | Not determined |                  |
| Decomposition Temperature    | Not determined |                  |
| Viscosity                    | Not determined |                  |
| Explosive Properties         | Not determined |                  |
| Oxidizing Properties         | Not determined |                  |

**10. STABILITY AND REACTIVITY**

|                                  |  |
|----------------------------------|--|
| Reactivity                       | Not reactive under normal conditions.  |
| Chemical Stability               | Stable at normal temperatures and pressures.   |
| Conditions to Avoid              | Exposure to air or moisture over prolonged periods.  |
| Incompatible materials           | Can generate heat when mixed with acids. When wet, flammable hydrogen gas may be produced from prolonged contact with alkali sensitive metals such as: aluminum, brass, bronze, copper, lead, tin, zinc. Ammonia, bases, floor sweeping compounds, calcium hypochlorite, reducing agents, organic solvents, and compounds. |
| Hazardous Decomposition Products | Sodium oxides, carbon oxides, chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, and phosgene.   |

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Mixture Toxicity

Toxicological data have not been determined specifically for this product.

### Information on likely routes of exposure

**Eye contact** Eye exposures may cause burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to the internal contents of the eye.

**Skin contact** Exposure with water may cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns. Dry material is less irritating than wet material.

**Ingestion** May cause irritation, nausea, and vomiting. May cause local tissue damage to epiglottis, mucus membranes of the mouth, esophagus and stomach such as burning, inflammation, local ulceration, and may cause gastrointestinal bleeding.

**Inhalation** May cause irritation, redness of the upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema.

### Carcinogenicity

Not classified as a carcinogen based on information supplied.

### Reproductive toxicity

Not a reproductive hazard based on information supplied.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Ecological have not been carried out on this product.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Instructions

Dispose of in accordance with applicable local, regional, national, and international regulations.

### Hazardous Waste Code

Not available.

### Waste from residues / unused products

Use or reuse if possible. Damp material should be neutralized to a non-oxidizing state.

### Contaminated Packaging

Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

## 14. TRANSPORT INFORMATION

### Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

### DOT I.D. Number

UN3262

### DOT Proper Shipping Name

Corrosive solid, basic, inorganic, n.o.s.

### DOT Hazard Classes:

|                 |   |
|-----------------|---|
| US DOT          | 8 |
| Road (ADR)      | 8 |
| Air (ICAO/IMDG) | 8 |
| Sea (IMO/IMDG)  | 8 |

### Packing Group

III

### DOT Label

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## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

Contents of this SDS comply with OSHA Hazard Communication Standard CFR 1910.1200.

### OSHA Hazard Communication Standard (29 CFR 1910.1200)

( X ) Hazardous ( ) Non- Hazardous

### SARA TITLE III

Section 302/304

Section 311/312

Section 313

Extremely Hazardous Substances: None.

(40CFR370) Hazardous Categories: Acute, Reaction.

Contains the following SARA 313 Toxic Release Chemicals: None.

### CERCLA

#### CERCLA Regulatory

Based on information supplied this product contains no substances regulated under CERCLA.

### State Regulations

#### California Prop 65

This product may contain the following ingredient(s) known to the state of California to cause cancer, birth defects or other reproductive harm: None.

### Inventories

| Component  | TSCA<br>(United States) | DSL<br>(Canada) | EINECS/ELINCS<br>(Europe) | ENCS<br>(Japan) | China<br>(IECSC) | KECL<br>(Korea) | PICCS<br>(Philippines) | AICS<br>(Australia) |
|--|-------------------------|-----------------|---------------------------|-----------------|------------------|-----------------|------------------------|---------------------|
| Sodium Metasilicate (6834-92-0)                    | X                       | X               |                           |                 |                  |                 |                        |                     |
| Sodium Carbonate (497-19-8)                        | X                       | X               | X                         | X               | X                | X               | X                      | X                   |
| Sodium Dichloroisocyanurate Dihydrate (51580-86-0) | X                       | X               |                           |                 |                  |                 |                        |                     |

## 16. OTHER INFORMATION

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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